## Chapter

## Review

Write the sentence as an inequality.

1. The sum of twice a number n and 8 (s at most 25.

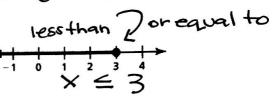
2n+8 \( 25

2. The temperature  $t_{i}$  is at least 75°F.

t 275

3. The cost of a ticket t will be no more than \$26.  $\pm 26$ 

Write an inequality that represents the graph.



Solve the inequality. Graph the solution.

6. 
$$-9 < m - 6 + 6 + 6 + 7 - 3z -$$

Solve the inequality.

8. 
$$m \ge 5m - 4$$
 $-4m \ge -4$ 
 $-4m \ge -4$ 
 $-4m \ge -4$ 
 $-4m \ge -4$ 

10. 
$$\frac{1}{2}h + 2 \ge \frac{1}{2}(h + 8)$$

12. 
$$4n + 3 < 6n + 8 - 2n$$
  
 $4n + 3 < 4n + 8$   
 $4n + 3 < 6n + 8$   
 $4n$ 

14. You need to write an essay that has at least 500 words. You have written 285 words so far Write and solve an inequality that represents the number of words w that you have left to write.  $\times +285 \ge 500$ 

15. You need at least 30 cubic feet of sand to fill a sand box. Each bag contains 2.5 cubic feet of sand. Write and solve an inequality that represents the number of bags b that you need to buy.  $|2.5b| \ge 30$ 

16. You are planning a school carnival. The equipment costs \$180 to rent. You plan to charge \$4.00 per ticket. You would like to have a profit of at least \$500. Write and solve an inequality that represents the number of tickets t that you need to sell. 4t-180 ≥ 500 tろにo

17. You want to purchase a calculator for at most \$115. You have saved \$30 so far. You earn \$7.50 per hour at your job. Write and solve an inequality that represents the number of hours h that you need to work.

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$$\frac{1}{3} \cdot \frac{60 \text{ min}}{1 \text{ hr}} = \frac{60}{3} = \frac{\text{Algebra 1}}{20 \text{ min}}$$